Pharmaceutical Water Treatment: From Purification to Validation

Introduction

Pharmaceutical water treatment ensures high purity water for drug manufacturing through purification, validation, and compliance with strict regulatory standards.

Conceptual Framework

In the pharmaceutical industry, water is used in many processes like making medicines and cleaning equipment. This slide explains how water is purified using different methods and how proper systems are used to store and supply it. It also shows how the quality of water is checked and maintained to ensure that medicines are safe and effective.

Types of Pharmaceutical Water

In the pharmaceutical industry, different types of water are used based on the requirement of the process. Each type has a specific level of purity. The most commonly used types are Purified Water (PW), Water for Injection (WFI), and Highly Purified Water (HPW). These types are selected depending on their use in manufacturing, cleaning, or injection purposes.

Modern Water Purification Systems

Modern water purification systems use advanced technologies to remove impurities, chemicals, and microorganisms from water. These systems improve water quality and ensure it is safe for industrial and commercial use. Common methods include filtration, reverse osmosis, and softening processes for effective treatment.

Thankyou

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Unit 2, Northlands Production Park, Epsom Avenue,
Hoogland, Randburg